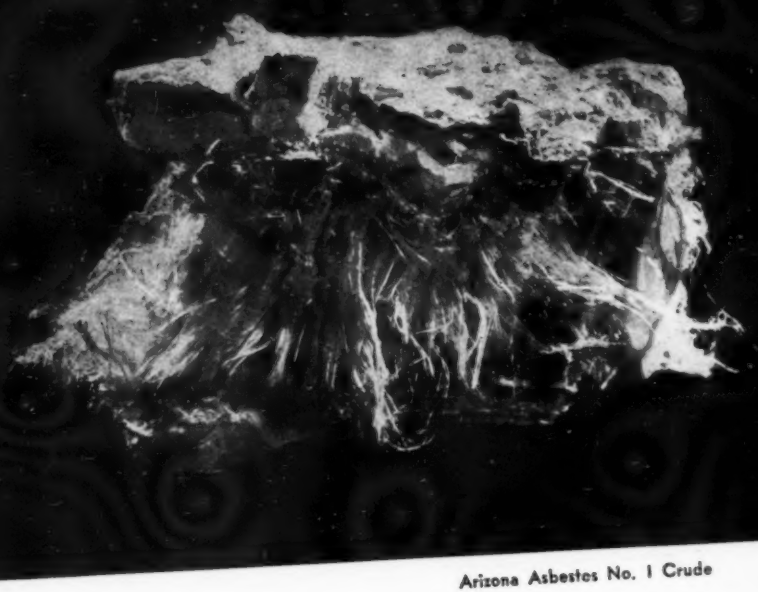
ASBESTOS



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THE MYTH

Asbestos in History

The existence of asbestos, or amianthus as it used to be called, has been known and the mineral used for at least 2,500 years. In 438 B.C., Plutarch recorded that the Vestal Virgins who tended the ever-burning fire of the sacred royal hearth held "perpetual lamps" with wicks of a woven material which was almost certainly asbestos mixed with vegetable yarn.

The ancient Romans who found asbestos in the Italian Alps regarded it as a vegetable and worked it up into cremation cloths, in which they wrapped the bodies of their kings to protect them from the all-consuming heat of the funeral pyre and so preserve the ashes.

Linum vivum (living linen) they called it. In 1702 a funeral urn was found near the Naevian Gate at Rome containing a skull, calcined bones and ashes wrapped in a long piece of asbestos cloth. It can be seen, with its contents, in the Vatican Museum today. A Greek doctor called Anaxilaus who was banished by the Roman Emperor Augustus in 28 B.C. for practicing magic wrote: "if a tree is surrounded with linen made of (asbestos) the noise of the blows given by the axe will be deadened thereby, and the tree may be cut down without being heard. For these qualities it is that this linen occupies the very highest rank among all the kinds that are known." It was being used for acoustic insulation even then.

Down the centuries, references are found in chronicles and proceedings of learned societies which indicate that the "magic mineral" was never forgotten. For example, the Emperor Charlemagne, who lived in the 9th century, is alleged to have saved a desperate situation by throwing his tablecloth into the fire and recovering it unharmed. His enemy bowed in deference to the possessor of obviously supernatural powers. The cloth was undoubtedly made of woven asbestos.

In the Middle Ages, the Venetian explorer Marco Polo described how in Siberia in 1250 he was shown a piece of unburnable cloth made, they said, from the skin of the

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salamander which lived in fire. His enquiries led him to asbestos mines which were probably those known to have been operating in the Russia of Peter the Great.

In the 15th century we hear of asbestos cloth being used for armor in battle. A contemporary rhyming account of the siege of Rouen (1420) talks about:

> The Kyngis herauldis and pursuiauntis
> in cotis of armys amyauntis.

In 1671 there appeared in a magazine called *Journal de Letterati,* published in Venice, an account of "a Substance found in great quantities in Some Mines of Italy out of which is made a kind of incombustible Skin, Paper and Candle Week". A certain Signor Castagna who had come upon this asbestos could treat it so that it resembled lambskin dressed white. "Of the same matter this Artist hath wrought a Week (Wick), never to be consumed as long as 'tis fed, nor altering its quality after the aliment is wasted away. And if that famous and incombustible Oyl were found out again, we read of, this matter would yield the Week for that everlasting Light so much celebrated by the Antients". But of course it wasn't everlasting, someone was always topping it up.

It was only by the end of the 17th century that asbestos began to be regarded as something other than an object of superstition and curiosity. Asbestos came into its own with the discovery of the deposits in Canada in the middle of the 19th century, with the accent perhaps on the conservation of heat by "lagging" rather than resistance to fire. When the price of coal began to increase, "thermal insulation" gradually developed into the science it is today.

Sir William Logan, the first Director of Geological Survey in Canada, "noted" asbestos as early as 1847. In 1876 it was rediscovered by Joseph Fecteau, and two years later the mining of the principal deposits at Thetford, Quebec, had become a going concern.

The asbestos Sir William Logan noted was White (Chrysotile) Asbestos, as indeed was every deposit discovered up to that time. The Italian amianthus used by

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the ancients was White, and the asbestos in the Russian, Chinese, Indian and Cypriot mines was White.

Some time between 1803 and 1806, however, many years before Sir William Logan's findings in Canada, Mr. H. Lichtenstein, a German geologist, was travelling near Prieska in the Orange River Valley in South Africa where he came upon a mass of heavy asbestos which was lavender blue in color. This was something quite new, and though there are deposits of Blue Asbestos (Crocidolite) in Australia, South Africa, where it was first discovered, is still its main source for commercial purposes, the chief of which is in the manufacture of asbestos-cement products.

But as with the discovery of White Asbestos in Canada, so with Blue in South Africa. The discovery was merely noted, and no attempt was made to explore its possibilities until 1891, when Francis Oats, a director of De Beers Consolidated Mines Limited, who controlled the diamond mines of South Africa, formed a group of his associates into the Cape Mineral Syndicate to exploit it. Oats' attention had been called to the Blue Asbestos at Prieska by a speculator called Cohen, to whom specimens of the rock had been brought by some African "boys" working at the Kimberley diamond mines who had their home at Prieska.

Two years later, Oats was persuaded to broaden the activities of the Cape Mineral Syndicate and establish a company in London which would undertake manufacture as well as mining. The name given to this company, which was incorporated on December 28th, 1893, was "The Cape Asbestos Company Limited".

In 1925, the Company acquired a number of mines in the Transvaal of the kind of fawn-colored asbestos, first discovered in 1907, known as Amosite. This had long, stiff, rigid fibres, and while unsuitable for easy spinning and weaving, proved itself ideal for use in insulating materials. Today it is used exclusively in the Group's "Caposite", "Asbestolux" and "Marinite" products, and in "Caposil 1400" calcium silicate materials.

Reprinted from the booklet "Asbestos The Raw Material" published by The Cape Asbestos Company Limited, London, England.

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

Technical Committee 77

The International Organization for Standardization (ISO) is the outcome of the latest and most concerted effort to achieve supranational standards. Instituted in London in 1946, it succeded to the International Federation of the National Standardizing Associations (ISA) which had been founded in 1926 and the work of which had been interrupted in 1940, and to the United Nations Standards Coordinating Committee (UNSCC) established in 1944.

To promote uniform standards throughout the world with a view to facilitating international exchange of goods and services and to developing mutual cooperation in the sphere of intellectual, scientific, technological and economic activity is the high aim of the ISO, whose offices are in Geneva.

Considerable progress has been achieved in the work of international standardization in general, and asbestos-cement in particular. By now, 44 countries participate in the ISO and most of them are represented on all of its 100 Technical Committees. ISO has issued approximately 200 Recommendations to date, while a further 300 drafts are well on the way towards completion. Itself a world-embracing organization, ISO works in permanent contact with over 250 other international bodies, such as the United Nations, the International Labor Office, UNESCO, the International Atomic Agency, etc.

One of the Technical Committees now carrying out the work of ISO is Technical Committee ISO/TC77 "Products in Asbestos-Cement". This Committee was created at the end of 1951 and has extended its activity to 38 countries, ten of which are observer members only; Switzerland was placed in charge of the secretariat. Since 1957, the Committee has met annually in plenary session under the patronage of the national institutions of Austria (1958), Portugal (1959), Sweden (1960) and the United Kingdom (1961). The plenary meetings which are attended by a

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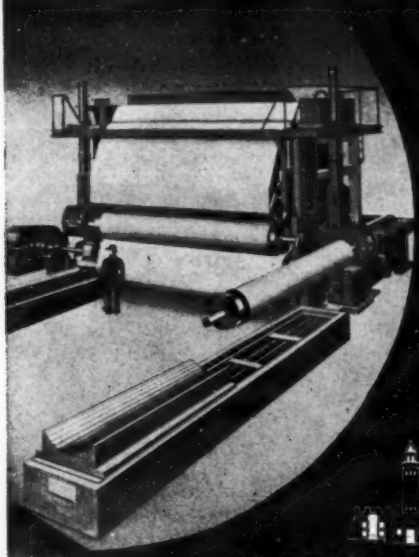

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relatively large number of delegates representing more than 20 countries, established working groups made up of specialists. They study the subjects dealt with in depth, thus facilitating a better rate of progress at the plenary sessions. In 1960, the first ISO Recommendation for Pressure Pipes drafted by Committee TC77 was published. Other drafts are ready for approval, viz. on building pipes and sewage pipes and their fittings, on roofing and cladding materials such as symmetrical corrugated sheets and asymmetrical section corrugated sheets. Other subjects are under consideration: roofing and cladding slates, flat sheets for vertical cladding, sidings, insulation boards, and in the pipe sector: rubber rings.

The task conferred on the delegations is not an easy one and calls for a sense of responsibility as well as a spirit of compromise. However, collective effort has made it possible to agree on recommendations which serve to up-grade asbestos-cement, a relatively young building material. The high requirements specified by the Recommendations give the architect and engineer a guarantee concerning the quality of the products offered him. Such matters as the sizes of roofing and vertical cladding materials are not considered by the Committee as suitable for unification. They depend too much on local customs and should be covered by national codes. But even though a good deal is excluded by general consent, it is very difficult to incorporate, in a single document, standards of quality that will cover the varied requirements particular to the different areas of the globe.

The spirit of cooperation which prevails amongst the members of Technical Committee ISO/TC77 surmounts these difficulties not, however, without accepting compromise solutions. Every member is conscious of the increasingly important part played by asbestos-cement in building construction and, disregarding any political or economic differences of view, Committee TC77 is conforming with the statement of policy laid down by ISO: to establish International Recommendations furthering mutual agreement in the intellectual, scientific and technical spheres.

Constituted for the greater part of the asbestos-

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Atlas Asbestos
Canadian Johns-Manville
Cassiar Asbestos
Husky Oil
Lake Asbestos

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Everitube, France
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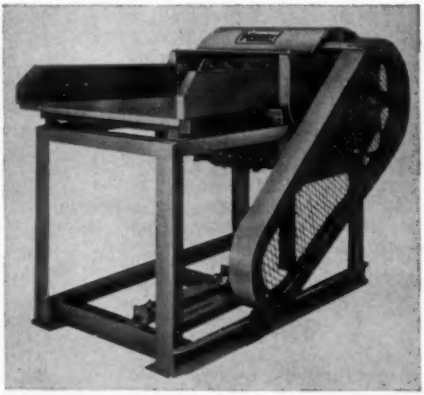

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cement industry, but also of representatives of the users and of the standards institutions, Technical Committee ISO/TC77, in spite of some setbacks, may claim to have encouraged international agreement and to have promoted the quality of this building material.

The above article was taken in part from the International Asbestos-Cement Reviews "ac 7" and "ac 23". The portion from "ac 23" was written by Madame Luce Scherrer, the highly esteemed Secretary of ISO/TC77. Madame Scherrer has been in charge of the administration of this Committee since its first plenary meeting in 1954.

TECHNIQUES OF PLANT MAINTENANCE & ENGINEERING, 12th volume, has been published by Clapp & Poliak, Inc. The annual volume is a verbatim report of the Plant Maintenance & Engineering Conference, held in Chicago, Illinois, in January of this year, in conjunction with the Plant Maintenance & Engineering Show.

Bound in cloth-on-board, with 349 pages, 8½ x 11", it contains the texts of 37 papers, illustrated by 114 charts, diagrams and tables, and supplemented by the discussions of 607 questions presented by the audience. In addition, the verbatim discussions of 155 subjects in 11 industry-wide "problem sessions" are included.

The book, priced at $10.00 postpaid, may be obtained from Clapp & Poliak, Inc., 341 Madison Avenue, New York 17, New York.

HAZARD HUNTING, a 10-page illustrated booklet published by the National Safety Council, was prepared especially to encourage off-the-job safety. Employers interested in low absentee rates may wish to distribute, to employees, this booklet which shows how to hunt down and destroy hazards in the home, outdoors and on the highway.

Further information and a single sample copy of "Hazard Hunting" is available from the National Safety Council, 425 North Michigan Avenue, Chicago 11, Illinois.

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ASBESTOS STORY RING*

8th Recipient

E. L. Clayton, Vice President—Purchases, The Philip Carey Manufacturing Company, Cincinnati, Ohio, has been awarded the 8th Asbestos Story Ring for his long association in the asbestos industry, knowledge of asbestos fibre, and interest in asbestos product manufacture.

The asbestos industry, a big and growing one, is unique in many ways. Executives in the industry developed the Asbestos Story Ring as a means of symbolizing and identifying the asbestos industry and its people. The ring is an unmistakable symbol and a deeply cherished possession.

The center of the Asbestos Story Ring is a blue-black onyx signet which bears the monogram of the ring holder. The scroll work design of the ring is most interesting and unusual. It depicts an asbestos miner, a drum winder from an asbestos paper machine, a section of air cell pipe covering, a coil of asbestos paper tape, rolls of asbestos woven tape and a section of asbestos corrugated board.

Seven ring holders prior to the award to Mr. Clayton of Philip Carey are, in order of award, as follows: Grant Wilson, President, Grant Wilson, Inc., Chicago, Illinois; Ladd L. Wilson, Vice President, Nicolet Industries, Inc., Florham Park, New Jersey; Lorne Bain, President, Albion Asbestos Packings Limited, Montreal, Quebec, Canada; Reuben H. Chase, President, Products and Product Devices, Inc., Atherton, California; A. F. Moore, deceased, The Philip Carey Manufacturing Company; Edgard M. Bollaert, Superintendent, Van-Packer Corporation, Division of The Flintkote Company, Buda, Illinois; and, J. A. D. Marcotte, General Sales Manager and Director, Asbestos Corporation Limited, Thetford Mines, Quebec, Canada.

J. W. Humphrey, President of The Philip Carey Manufacturing Company, Cincinnati, Ohio, presented the Asbestos Story Ring to Mr. Clayton at a luncheon in his honor at the Queen City Club in Cincinnati on June 13th, 1961.

*The August 1955 issue of "ASBESTOS" carried a descriptive article on the Asbestos Story Ring.

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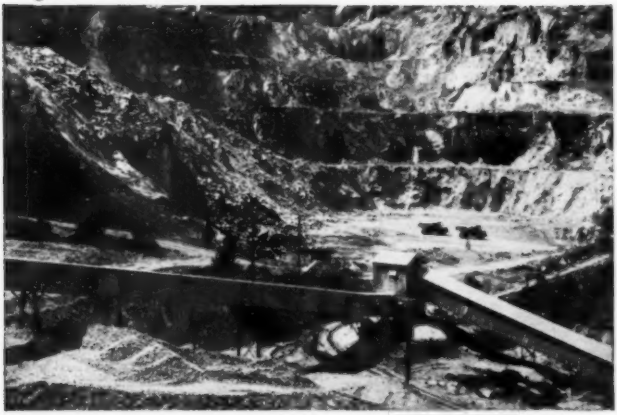
The new line of hydraulic brake parts that has been added to the traditional friction products of the Raybestos Division of Raybestos-Manhattan, Inc., will be launched with an all-out merchandising campaign.

The new line of hydraulic brake parts will enable every Raybestos dealer to become a one-stop brake shop which can supply linings, parts or fluid to the motorist. The entire industry will learn about the new Raybestos program through a concentrated, intense advertising and promotion campaign.

An important feature of the program is a unique new film to be shown by Raybestos representatives. The film, which will be shown to distributors in their own offices, will explain in detail every phase of the hydraulic parts program. Appearing in the film will be J. L. McGovern, Jr., Sales Manager; Clyde Batchelor, Director of Research and Product Development; Ronald Moalli, Chief Engineer; and, Tony D'Andrea, Director of Service Training. The group, each member of which is an expert in a different phase of the program, will outline engineering aspects, the proposed sales methods and goals and other key points of the overall project.

The Raybestos wheel cylinder cups are the heart of the hydraulic system. The cups meet or exceed SAE 60R2 Specifications. The rubber compound is vulcanized at 400 tons. Every mix has sample cups tested for 70 hours at 1,000 strokes per hour at temperatures of 250°F. and 77° below freezing. The Raybestos double-flared flange provides extra surface area for applications of hydraulic forces to seal and to provide positive action in brake application. The special rubber compound also resists scuffing and sloughing. It is compatible with any fluid meeting SAE specifications.

The Raybestos brake cable is stretch tested at 1,500 pounds, 7½ times maximum pull. Each is pre-lubricated to insure maximum life and sealed in a polyethylene tube which retains lubrication, prevents rust and oxidation and assures rattle-proof operation. All fittings are copper-plated to prevent rust.



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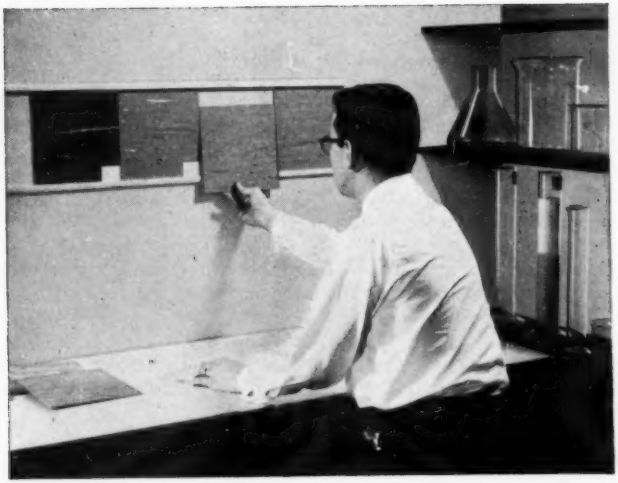
Also included in the new hydraulic parts line are: master cylinder assemblies, master cylinder repair kits, wheel cylinder assemblies, wheel cylinder repair kits, brake bleeders, stop light switches and brake service tools.

CAREYTEMP, the versatile block and pipe insulation for temperatures up to 1600°F., will be featured in *The Philip Carey Manufacturing Company* exhibit, Booth 1211-13, at the Chemical Engineering Show in the New York Coliseum, November 27th through December 1st, 1961. Particularly adaptable for the wide range of temperatures and applications common throughout industry, Careytemp will be making its initial showing at this exposition.

A series of "torture tests" will be conducted at the Carey booth each day of the show to exhibit Careytemp's ruggedness and flexibility. Composed of expanded silica with a specially developed binder and reinforced with an inorganic fibre, Careytemp is manufactured by Carey's Insulation Division. Careytemp features exceptional water resistance, light weight at no sacrifice of strength, and ease in cutting without crumbling. Since no special tools are required, Careytemp saves application time and costs.

Literature on Careytemp (Form 6409) may be obtained at the Chemical Engineering Show, from Carey District Offices, or by writing to The Philip Carey Manufacturing Company, 320 South Wayne Avenue, Cincinnati 15, Ohio.

SEAT BELTS SAVE LIVES, an 8-page illustrated booklet giving factual data on how seat belts lessen injuries and reduce the possibility of death in auto accidents, was recently published by the National Safety Council.



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If color is one of your production problems, try Gold Bond® Asbestos. The fibers are uniform in quality and low in fines content, too. And whatever your asbestos needs may be, may we suggest that you check first with National Asbestos Mines Ltd., Thetford Mines, P. Q., Canada. (Subsidiary of National Gypsum Company.)

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THE FLINTKOTE COMPANY

New Asbestos-Cement Pipe Plant

The Flintkote Company plans to start construction this summer of a $10,000,000 asbestos-cement pipe plant in Ravenna, Ohio, 15 miles west of Akron.

Signaling Flintkote's entry into this field, the plant is the first of two planned by the company as a result of a licensing agreement between it and the Johns-Manville Corporation.

Under this agreement, Flintkote was licensed by J-M to make asbestos-cement pipe long marketed by Johns-Manville under the trade name "Transite".

Products made by Flintkote will be merchandised through its Orangeburg Manufacturing Division, a leading maker of fiber and plastic pipe and conduit acquired by Flintkote in November, 1958.

The 186,000 square-foot facility will have a 46,000-ton annual capacity. Pipe to be produced will range from two inches through 16 inches in diameter. When in full operation, approximately 150 workers will be employed.

The one-story plant will have a spray-applied Flintkote Monoform roof over a Flintkote Insulrock slab deck. Located on a 100-acre site, the plant will be one mile south of the City of Ravenna on U. S. Highway 44. It will have railroad as well as trucking facilities.

ARMSTRONG WALL CORLON, a completely new type of wall covering designed and styled for institutional and commercial applications, has been announced by the Armstrong Cork Company.

A latex-asbestos composition, Wall Corlon is manufactured in .030" and .040" gauge and 54" widths and is available in three surface textures; suede, knobby and striated. Each design is offered in 20 colors, keyed to metal partitions, office, school and hospital furnishings.

Armstrong Wall Corlon, which will be priced competitively, will be available on a national basis from floor and wall covering contractors and retailers.

NEEDLED FELTS

- last longer
- start faster
- increase production
- improve product quality
- lower felt cost
- make optimum use of synthetics

ask your

HUYCK MAN

AUTOMOBILE SALES

	May 1961
Passenger Cars	539,858
Motor Trucks	101,406
Motor Coaches	375
	641,639

In May 1960, a total of 725,665 motor vehicles were sold. In the five months of 1961 the total was 2,649,548.

These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Michigan.

NATIONAL GYPSUM COMPANY has available a new line of Plasticrylic Siding which combines all the most wanted features of ordinary Siding styles. The distinctive natural texture of Classic-Shake Siding is now available in a 9″ x 32″ size, as well as the usual 12″ x 24″. The new dimension, resulting in an 8″ exposure when applied, is being produced in answer to popular demand for the "Clapboard Look", as well as the well-known natural texture.

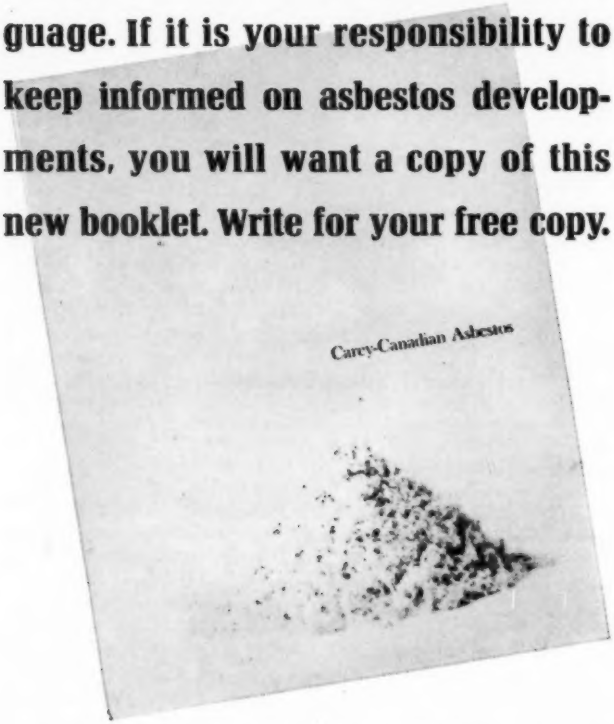
Available in a full line of six rich colors, the new Siding, called Gold Bond *Classic "32" Clapboard Siding*, retains all the time-tested features of its predecessors, including Plasticrylic finish to protect the colors and "Permanizing" to ensure dimensional stability.

For further information or actual samples, contact any Gold Bond Representative, or write National Gypsum Company, Buffalo 2, New York.

THE BIG PAYOFF is the title of a new National Safety Council publication aimed at selling employes on the value of their companies' accident prevention program.

Further information on this 12-page, four-color cartoon pamphlet is available from the National Safety Council, 425 North Michigan Avenue, Chicago 11, Illinois.

Asbestos users! Here is the story of Carey-Canadian Asbestos in your language. If it is your responsibility to keep informed on asbestos developments, you will want a copy of this new booklet. Write for your free copy.



your dependable source for the highest quality asbestos
consistently uniform from shipment to shipment

Carey®

CAREY-CANADIAN MINES, LTD.
Write P.O. Box 15095, Cincinnati, Ohio for free booklet.

T. C. HALE, 57, Joint Managing Director of The Cape Asbestos Company Limited, died in London, England, on July 13th, 1961, after a long illness.

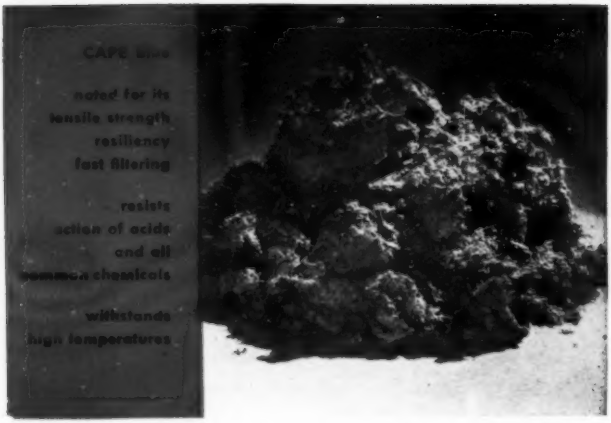
Mr. Hale had devoted his entire working life to Cape Asbestos starting in 1921 as a junior clerk at the company's Barking works of which he became Plant Manager in 1943. He was appointed to the Board of Cape Asbestos as Technical Director in 1953 and was responsible for all matters relating to the Group's manufacturing activities at home and overseas and for correlating its mining interests in South Africa. In 1957, he was appointed Joint Managing Director of the company with R. H. Dent. He was a member of the Asbestosis Research Council and was Chairman of its Managment Committee at the time of his death.

After the decentralization of the Cape Group at the beginning of this year, Mr. Hale was Chairman of Cape Asbestos Fibres Limited, Cape Insulation and Asbestos Products Limited, Cape Building Products Limited and Marinite Limited, and a Director of Cape Asbestos South Africa (Pty) Limited, Cape Asbestos Insulations (Pty) Limited, Andersons Insulation Company Limited, Small and Parkes Limited, Kismet Limited and Isolamiante S.A.

NATIONAL GYPSUM COMPANY has announced the availability of an up-to-date architectural, engineering and data manual on their Gold Bond Corrugated Asbestone "400" Roofing and Siding.

The manual covers erection and application techniques, details of supplementary assemblies, and data on ultimate load vs. span, compressive strength, Rockwell hardness and density of Asbestone Corrugated sheeting. Ready methods for determining the products and accessories needed for a particular application also are included.

In short, all necessary and pertinent information on the fireproof, weather-proof and rustproof permanent roofing and siding is contained in this 39-page manual, "Corrugated Asbestone '400'" (A.I.A. File Number 12-B-3), available from National Gypsum Company, Buffalo 2, New York.



direct from our own South African mines—

BLUE asbestos fiber

Select the strongest of all fibers, from the world's largest producers of Blue (crocidolite) asbestos. Know about its use in molded plastics; as a base for rubber and synthetic impregnants; as reinforcement for bituminous products; as a reinforcement for cements, mortars, refractories. Write for Bulletin 201.

NAAC

In the United States

NORTH AMERICAN ASBESTOS CORPORATION

Board of Trade Building • Chicago 4, Illinois

In Canada

CAPE ASBESTOS (Canada) Limited

200 Bloor Street East • Toronto, Ontario • Canada

Subsidiaries of The Cape Asbestos Company Ltd. • London

The AMERICAN SOCIETY FOR TESTING MATERIALS has announced the availability of a 62-page list of publications. Published in April of this year, this list of publications describes the Symposiums, Manuals, Special Publications, Indexes, Compilation of Standards, Charts, Reference Photographs and Reports published by the Society through the years. More than 300 items are fully described, 40 of which are new and not previously listed.

The publications cover all phases of materials and their evaluations and are arranged conveniently by titles and subject. A convenient order blank is bound into the catalog. The list of publications may be obtained free for the asking from the American Society for Testing Materials, 1916 Race Street, Philadelphia 3, Pennsylvania.

AMERICAN SOCIETY FOR TESTING MATERIALS has announced that five leaders in the field of engineering materials were named to Honorary Membership in the ASTM—the Society's top award to a member—at the President's Luncheon, Chalfonte-Haddon Hall, during the 64th Annual Meeting of ASTM in Atlantic City, New Jersey. This award is given to persons of widely recognized eminence in the field of work covered by the Society or who have rendered especially meritorious service to the Society.

The recipients were: *Edward J. Albert*, Chairman of the Board, Thwing-Albert Instrument Company, Philadelphia, Pennsylvania; *Simon Collier*, Quality Control Consultant, New Rochelle, New York (retired Director of Quality Control, Johns-Manville Corporation, New York City); *Theo. Parker Dresser, Jr.*, President and Chief Engineer, Abbot H. Hanks, Inc., San Francisco, California; *Stanton Walker*, Director of Engineering, National Sand and Gravel Association, Washington, D.C., and Director of Engineering, National Ready Mixed Concrete Association, Washington, D.C.; and, *William A. Zinzow*, (retired Assistant Director of Development, Bakelite Company), Rippon, Wisconsin.

High grade asbestos fibers produced to your needs

Shingle and siding stock, floor tiles, brake linings, insulating coatings, pipe or plastics – name your product–Flintkote's research laboratories are completely equipped to determine and recommend the grade and characteristics of asbestos fiber your product needs. Flintkote Mines extensive facilities mill fibers to meet every requirement!

If asbestos fiber is a factor in your manufacturing process, call or write Flintkote for a quick answer to any problem.

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· Toronto Office: 30th Street, Longbranch, Toronto, Ont., Canada · London Office: Adam House, 1 Fitzroy Square, London W-1, England

Karl V. Lindell, Chairman of the Board of *Canadian Johns-Manville Company Limited* and Director of ADVOCATE MINES, announced recently that contract for the construction for 1961 at Advocate Mines, Newfoundland, has been awarded. This construction will consist of a dock providing berths for ocean-going vessels and a separate berth for coastal vessels, a Fibre Warehouse providing storage for 20,000 tons of asbestos fibre and mechanical service building, Housing, Machine Shops, Stores and a Maintenance Garage. The contract further includes roads connecting the two major buildings and site preparation for future construction.

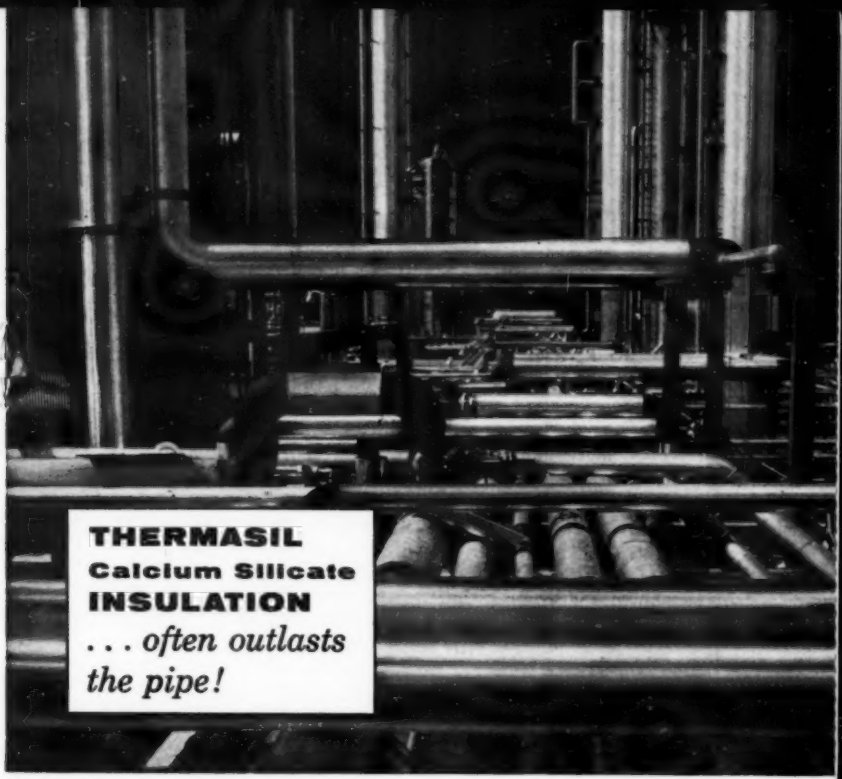
This is the first part of the construction and will be followed by the Mill Building, Housing and other facilities which will be contracted for in 1962 with the intent that Advocate Mines will be producing asbestos fibre by mid-1963.

Effective elimination of jet blast erosion of asphaltic concrete airfield pavements is possible by the addition to design mixes of about 5% of asbestos fibers. This has been demonstrated by pilot plant tests performed at the JOHNS-MANVILLE RESEARCH CENTER, as reported in a technical paper recently published by J-M.

According to the report, AFD-19A, control of jet blast erosion of asbestos-asphalt airfield paving appeared to be a function fiber content, asphalt penetration and filler content. Test specimens were subjected to simulated jet blast consisting of hot air at a velocity of 300 to 325 feet per second giving a surface temperature at the center of the exposed surface of 360°F. to 400°F. Specimens were exposed for periods of 30 minutes, with intervening periods sufficient to allow them to cool to room temperature. A maximum of four cycles was used.

Based on the test results, J-M has recommended two mixes for full-scale jet blast tests, including field construction techniques.

Copies of AFD-19A are available from Johns-Manville Corporation, Asbestos Fibre Division, Manville, New Jersey.



THERMASIL Calcium Silicate frequently outlives equipment and piping. Moisture resistant and durable, shock resistant and structurally stable, THERMASIL makes your first cost your last. Teamed with sheet aluminum for protection against temperature extremes, sandstorms and tornadoes, THERMASIL is used throughout this Texas refinery to *keep heat balances constant* For more information on B-E-H THERMASIL and the complete B-E-H line of industrial insulations for temperatures from sub-zero to 1900 F see your distributor or write for new Catalog.

B E H
BALDWIN-EHRET-HILL

BALDWIN-EHRET-HILL
500 Breunig Avenue Trenton 2, New Jersey

We have heard of the sudden death of FRANCESCO STEARDO who was an expert in the making of Asbestos-cement pipes, having started with Italian Eternit Company soon after the First World War. After the Second World War he did some erecting jobs abroad and was associated with an Italian Company for making more specially Asbestos-Cement pipes. He was regarded by the people who knew him as an expert in this field and the plants for which he erected machines after the War were very numerous.

The INDUSTRIAL BUILDING EXPOSITION & CONGRESS, held for the first time last December, will be produced again in 1961, it has been announced by Clapp & Poliak, Inc., the New York exposition management firm.

The Exposition and Congress will take place at the New York Coliseum, September 25th through 28th, 1961, and exhibits will cover the two main floors of the Coliseum. The extensive program of the Congress will cover virtually every major aspect of new construction and modernization.

Visitors who plan to attend should write to Clapp & Poliak, Inc., 341 Madison Avenue, New York 17, New York, for rapid registration cards, congress programs and hotel information.

NATIONAL FIRE PROTECTION ASSOCIATION has announced the availabliity of four revised standards.

NFPA No. 80—"Fire Doors and Windows", 1961, 70 pages, $1.00.

NFPA No. 90A—"Air Conditioning Systems for Other Than Residences", 1961, 26 pages, 60¢.

NFPA No. 90B—"Warm Air Heating and Air Conditioning Systems for Residences", 1961, 24 pages, 50¢.

NFPA No. 214—"Water Cooling Towers", 1961, 11 pages, 50¢.

Copies of any or all of these standards may be obtained by writing the National Fire Protection Association, 60 Batterymarch Street, Boston 10, Massachusetts.

asbestos cement department
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NOTICE

The R.C.M. Company (Revisione Costruzione Macchine) - 10, Via Santa Teresa - Turin - Italy, wishes to inform that anybody interested is invited to visit a very modern Factory in Italy where an R.C.M. automatic installation is in working activity for the manufacture and finishing of Asbestos-Cement pressure and non-pressure Pipes, also of small diametre.

Examination of this installation will clearly show the results reached by the R.C.M. Company in the construction of machinery for the Asbestos-Cement Industry.

This machinery permits the use of lower priced asbestos mixtures while producing the same quality product in accordance with the standards now in force.

BUILDING

The construction outlook brightened further in June 1961 with notable gains registered in contracts for both non-residential and residential buildings, F. W. Dodge Corporation reported. Total contracts for future construction rose to $3,602,176,000 in June, 4% higher than the same month last year.

Dodge economists pointed out that the June construction contracts showed a more than seasonal increase, with the Dodge Index rising to 281, compared with 257 in May and 261 in April (1947-49=100, seasonally adjusted).

Contracts for non-residential building in June totaled $1,221,087,000, up 10% over a year ago. Sharp gains in contracts for industrial buildings, hospitals and public buildings, plus modest increases in educational and recreational buildings accounted for the rise.

June residential building contracts amounted to $1,558,129,000, up 5% over June 1960. Contracts for apartment buildings continued to show impressive gains, exceeding the year-earlier level by 28% while single-family houses were just slightly below last year. The number of dwelling units represented by the June residential contracts totalled 112,779, an increase of 3% over a year ago.

Contracts for heavy engineering construction in June were valued at $822,960,000, down 6% from last year. A substantial gain in contracts for electric light and power systems was more than offset by a decline in contracts for streets and highways.

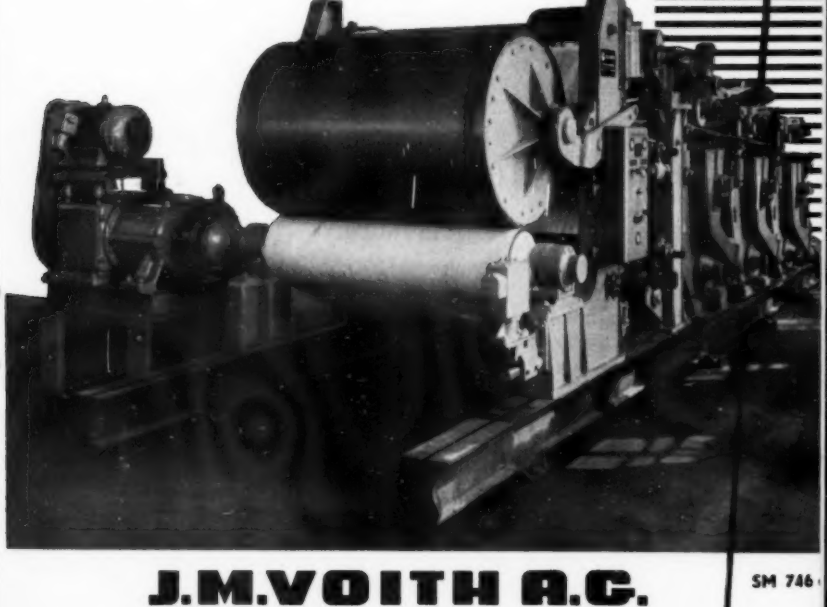
Cumulative totals of construction contracts for the first six months of 1961, with percentage changes from the corresponding period last year, are: non-residential building, $5,992,063,000, up 3%; residential building, $7,762,193,000, up 2%; and heavy engineering, $4,465,440,000, up 7%—total construction, $18,219,696,000, up 4%.

All machinery for the equipment of plants producing asbestos-cement pipes and sheets

covering the entire production process from the stock preparation to the testing of the finished product.

All machinery for wet or dry preparation of asbestos-cement / Asbestos silos.
Sheet producing machines with one to three cylinder moulds, automatic or semi-automatic combined production lines for flat and corrugated sheets.
Piling equipment combined with cleaning and lubricating machinery for flat and corrugated steel sheets, suitable also for automatic operation / punching and trimming machines / hydraulic presses.
Pipe winding machines for the production of pressure pipes of up to 5 metres (16 ft. 5 in.) length and 1000 millimetres (3 ft. 3 in.) dia / lathes for pipes and joints / cutt-off grinders / testing presses for pipes and joints / calenders for the forming of plain and joint-fitted pipes / mandrel pull off machines / autoclaves for hardening of asbestos-cement sheets and pipes as well as many other units, pumps and accessories.

Leaflets describing individual machines will be readily sent on request.



J.M.VOITH A.G.

St. Poelten – Austria

P. O. B. 168 / Tel. 2501 / Teletype 01510

SM 746

MARKET CONDITIONS

GENERAL BUSINESS.

Despite the usual summer slackening of activity in many lines, general business continues to show an overall strength which indicates the recession is a thing of the past. The steel industry reports an encouraging volume of orders for August delivery. While automobile production is slowing as a prelude to the model changeover, sales in June and early July were excellent. Negotiations between the carmakers and the union have begun and, while union demands are high, it is generally felt that a strike is unlikely.

Statistically the Gross National Product for the second quarter was at a record high, total employment increased substantially and the length of the average work week and average weekly earnings in manufacturing both increased significantly during this period. The figure for unemployed, swelled by the newly graduated high school and college students stood at over five and one-half million persons, which gives cause for some worry as to when the economy can expand to the point where a substantial number of these job-seekers can be employed.

In general it may be said that, while no boom has yet started the condition of the economy is good and promises to get better over the near term.

ASBESTOS—MANUFACTURED GOODS.

Asbestos Brake Lining. The market situation at the present time for replacement sales and the Equipment Division has improved over last month and should show significant gains over 1960.

Asbestos Paper. The present market situation is improving in Building Construction, Steel and Non-ferrous industries, and the outlook for the rest of the year is good. The volume of orders for *Asbestos Millboard* has increased over last month but prices remain competitive for that business which is available. This situation is expected to

continue for the rest of the year. The present market situation for *Asbestos Saturated Paper* is fairly good and the seasonal level is somewhat higher than average. A continued gradual growth rate is anticipated for the remaining months of 1961.

Asbestos Cement Products. Materials used for industrial construction are moving rather slowly but this situation is expected to improve toward the last quarter of 1961. Those products used in residential and commercial construction are seasonally strong and the business available should certainly be equal to or better than the business available last year.

Corrugated & Flat. The market situation at present is not quite equal to 1960, but an improvement for the balance of the year is indicated.

High Pressure Insulation. At present, the demand for this material is slow with severe price competition on contract and f.o.b. sales. There are indications of significant improvement in the coming months as insulation contracts are awarded for a substantial amount of construction work.

Shingles—Roofing & Siding. This business is considered to be normal and seasonal. The outlook for Siding sales appears favorable and should show an increase over last year. Improving economic conditions should result in gradually improving demand for Siding for modernization, repair and new construction.

Asbestos Pipes. This market is seasonally strong but more competitive on all types of pipe than it has been for the past few years. It is expected that the present low price levels will improve substantially as the strong seasonal demand continues. The outlook indicates a reasonably active market demand for the balance of the normal construction season.

The above comments have been made by various informed executives in the Industry. All comments are welcome.

THE PRODUCERS' COUNCIL, INC., a national organization of manufacturers of building materials and equipment, will hold its Annual Business Meeting and Elections at its 40th Convention, September 20th and 21st, 1961.

The Chapter Presidents Conference of The Producers Council will be September 20th, 21st and 22nd, 1961.

Both events will be at the Pittsburgh Hilton Hotel, Pittsburgh, Pennsylvania.

INSTRUMENT SOCIETY OF AMERICA has scheduled its 16th Annual Instrument-Automation Conference & Exhibit for September 11-15, 1961, in Los Angeles, California. Conference sessions will be held in the Biltmore Hotel and the Exhibit will be located in the Memorial Sports Arena.

"Reliable Information from Underwater to Outer Space" is the Conference theme and approximately 80 sessions dealing with varied areas of instrumentation will comprise the Conference program.

SURVEYER, NENNIGER & CHÊNEVERT

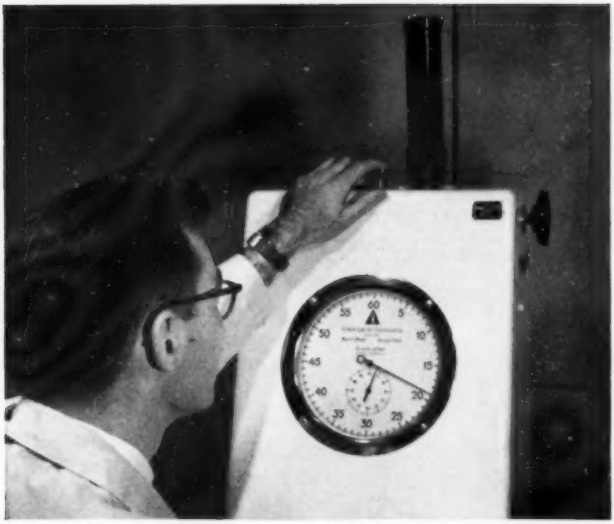
Complete Consulting Engineering Services for the Asbestos Industry

One of our Completed Projects: - Mill No. 5 for Johns-Manville at Asbestos, Que., Canada

One of our Current Projects:- Advocate Mines, Baie Verte, Newfoundland

1440 St. Catherine Street West, Montreal 25, Que., Canada

Ottawa - MONTREAL - Baie-Comeau



In 5 minutes...An Automatic Test of Fiber Openness

Press the starter button, and in 5 minutes the Blaine-Dyckerhoff air permeability tester will *automatically* determine the surface area of asbestos fiber. This apparatus as used at the J-M Research Center and by J-M Mill Quality Control at Asbestos, Quebec, is accurate within a 5% margin of error.

In a continuing effort to improve fiber quality and uniformity, and after thoroughly evaluating and testing, J-M recommends this equipment to the Asbestos Industry as an approved and improved method in Quality Control.

For full details, write Johns-Manville, Box 14, New York 16, N. Y. In Canada: P.O. Box 1500, Asbestos, Quebec. Cable: Johnmanvil.

JOHNS-MANVILLE JM

AFRICA (Rhodesia)

(Published by Rhodesian Mining and Engineering)

Tons 2,000 lbs.

Production for May 1961	13,507.62
Valued at	£756,997.00*
Production for May 1960	11,830.00
Valued at	£645,655.00*

*Corrected to the nearest £.

CANADA

(Dept. of Mines, Province of Quebec)

Tons 2,000 lbs.

Production for May 1961 (Quebec)	107,810
Other Provinces	6,495
	114,305

Total production for May 1960 was 106,214 tons.

UNITED STATES RUBBER COMPANY
Second Quarter Report—1961

Second quarter profit for United States Rubber Company totaled $8,498,409, compared with $8,557,312 a year earlier. Sales in the second quarter of this year were $254,491,385 and were within a fraction of 1% of the $256,089,046 registered in the second quarter of 1960.

According to George R. Vila, President of U. S. Rubber, "An increase in sales, notably in May and June, contributed importantly to the sharp improvement in second quarter earnings as did a company-wide cost reduction program which has progressively become more effective".

WILHELM BURGDORF
Importer of Raw Asbestos
P. O. Box 1131, BREMEN, GERMANY

ARIZONA ASBESTOS

Mined and Milled by

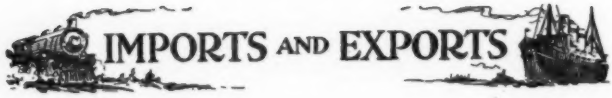
JAQUAYS MINING CORPORATION

1219 S. 19th Avenue

PHOENIX, ARIZONA

Producers of Soft, Low Iron, White Chrysotile
Crudes and Filter Fibre

MINES AND MILL IN GILA COUNTY



Imports Into U.S.A.

(Figures by Bureau of Census)

Unmanufactured Asbestos: March 1961

	Tons (2,240 lbs.)
From: Canada	44,084
Union of South Africa	2,433
Australia	330
Rhodesia (Nyasaland)	104
Other Countries	177
	47,128
Valued at:	$5,299,179

By Grades:

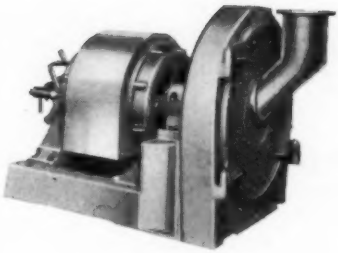
Crude, Chrysotile, Union of South Africa	615
Crude, Chrysotile, Other Countries	62
Crude, Blue, Australia	330
Crude, Blue, Union of South Africa	1,145
Crude, Blue, Other Countries	36
Crude, Amosite, Union of South Africa	673
Crude, Amosite, Rhodesia (Nyasaland)	104
Textile Fiber, Chrysotile, Canada	1,515
Textile Fiber, Chrysotile, Other Countries	1
Shingle Fiber, Chrysotile, Canada	7,712
Shingle Fiber, Chrysotile, Other Countries	26
Paper Fiber, Chrysotile, Canada	3,431
Other Fibers, Chrysotile, Canada	31,426
Other Fibers, Chrysotile, Other Countries	52
	47,128

Manufactured Asbestos Goods: March 1961

	Quantity (lbs.)	Value
Asbestos Yarn, United Kingdom	28,263	$ 21,077
Other Countries	18,230	7,519
Asbestos Packing		
United Kingdom	21,811	15,105
Other Countries	2,073	1,153
Asbestos Shingles (Impregnated)		
Belgium	289,209	25,899
Other Countries	91	299
A-C Pipe & Fittings (Not Impreg.)		
Mexico	731,078	72,088

Bauer

Single Revolving Disc Mills



for your wet grinding

In this type of mill, one disc rotates while the other remains stationary.

These famous Bauer machines are used for wet applications in the asbestos industry . . .

1. To reduce coarse particles—1/16" and larger.
2. To deflock fiber bundles in asbestos slurry, for the production of both paper and cement.

Our mills are adaptable to many specific purposes. We take pride in engineering installations to meet exact requirements. When we encounter new problems, we make tests in our fully equipped research laboratories.

You are invited to consult with us.

THE BAUER BROS. CO.
1826 SHERIDAN AVE.
SPRINGFIELD, OHIO

CANADIAN AGENTS:—Lynn Macleod Engineering Supplies Ltd., Thedford Mines, P.Q.
EXPORT AGENTS:—M. Neumunz & Son, Inc., 90 West St., New York 6, N.Y.

Bauer-McNett Classifier

A widely used device for classifying any sample of slurry into a number of fractions, each containing fibers of the same approximate length. Ask for literature.

Belgium	699,712	55,341
Italy	1,871,423	73,983
A-C Mfgs. Other (Not Impregnated)	45,519	1,508
Asbestos Manufactures—Others	..	2,282
	3,707,409	$276,254

IMPORTS OF ASBESTOS BY UNITED KINGDOM

Raw Materials
Tons 2,240 lbs.

		January/April 1961
From:	Union of South Africa	10,575
	Basutoland, Bechuanaland & Swaziland	4,283
	Rhodesia & Nyasaland	13,069
	Canada	11,818
	Other Commonwealth Countries & Irish Republic	821
	Foreign Countries	1,871
		42,437

IMPORTS OF ASBESTOS BY UNITED KINGDOM

Raw Materials
Tons 2,240 lbs.

		May 1961
From:	Union of South Africa	3,623
	Basutoland, Bechuanaland & Swaziland	1,241
	Rhodesia & Nyasaland	6,692
	Canada	9,575
	Other Commonwealth Countries & Irish Republic	..
	Foreign Countries	597
		21,728

JOHNS-MANVILLE CORPORATION

Second Quarter Report—1961

Consolidated earnings of Johns-Manville Corporation and subsidiary companies in the second quarter of 1961 were $8,273,000, compared with $8,858,000 in the corresponding period last year. Sales in the second quarter of 1961 were $103,175,000, compared with $99,525,000 in the second quarter of 1960.

According to C. B. Burnett, President of J-M, "Sales in May and June showed a definite improvement over a year ago, but there continues to be general resistance to price changes to cover increased costs".

GEBR. WEHRHAHN

MASCHINENFABRIKEN

P. O. Box 209

DELMENHORST / GERMANY

Manufacturers of the finest and most modern plants for the production of asbestos-cement products, such as

pressure pipes
socket pipes
flat and corrugated sheets

Projecting — Erecting — Handing over in ready-for-operation condition

Get full information! **Write now!**

Exports From U.S.A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	April 1961	
	Tons (2,240 lbs.)	Value
To: Europe	88	$ 32,604
South America	14	4,834
Canada	25	4,098
United Kingdom	20	1,880
Other Countries	9	4,180
	156	$ 47,596

Manufactured Asbestos Goods:

	April 1961	
	Quantity	Value
Asbestos Cement & Pipe Covering ..Lbs.	702,202	$ 278,721
Asbestos Textiles & Yarn .....Lbs.	39,151	40,251
Asbestos Packing .....Lbs.	120,917	185,198
Asbestos Clutch Facing .....No.	116,809	103,227
Asbestos Bk Lng (Mld & S.Mld) Lin Ft.	113,143	59,095
Asbestos Brake Lining, Other .....Lbs.	322,637	288,916
Asbestos Construction Material ...Lbs.	1,957,767	219,924
Asbestos Manufactures — Other	..	104,365
		$1,279,697

George Kwachak has joined KEASBEY & MATTISON COMPANY as Sales Representative in the San Francisco, California, pipe district. This announcement was made by Myron E. Fuller, K&M's San Francisco District Manager.

Robert Wright Gundlach has been appointed Merchandising Manager for Distributor Sales, KEASBEY & MATTISON COMPANY, it was announced by J. R. Reichel, General Manager, Asbestos-Cement Pipe Sales Division, at Ambler, Pennsylvania.

In his new assignment, Mr. Gundlach will be responsible for the sale of K&M Building Sewer, Irrigation and Air Duct pipe products and for plastic pipe products. He joined K&M in June of 1960 as Assistant to the Merchandising Manager of Sprayed "Limpet" Asbestos Sales, in K&M's Building Products Division.

Your dependable, established, volume supplier of high-grade asbestos **for every application is Lake Asbestos of Quebec. LAQ is an independent source of uniform quality chrysotile asbestos fibre and its annual capacity of 100,000 tons is your assurance of continuous supplies. For additional information, call or write Lake Asbestos of Quebec, Ltd., 120 Broadway, New York 5, N. Y., or your nearest sales agent.**

NORTH AMERICAN SALES AGENTS:

California, Los Angeles
E. B. Taylor Company

California, San Francisco
E. M. Walls Company

Colorado, Denver
Braun-Knecht-Heimann Co.

Massachusetts, Ballardvale
D. H. Litter & Co., Inc.

Michigan, Detroit
Baker & Collinson

Missouri, St. Louis
Harry A. Baumstark & Company

New York, Buffalo
Buffalo Solvents & Chemicals Corp.

New York, New York
D. H. Litter & Co., Inc.

Ohio, Cleveland
A. C. Mueller Co., Inc.

Oregon, Portland
Van Waters & Rogers, Inc.

Pennsylvania, Conshohocken
Van Horn, Metz & Co., Inc.

Texas, Houston
Federated Metals Division

Utah, Salt Lake City
Braun-Knecht-Heimann Co.

Washington, Seattle
Van Waters & Rogers, Inc.

In Canada: Toronto & Montreal
Federated Metals Canada, Ltd.

LAKE ASBESTOS OF QUEBEC, LTD.
a subsidiary of American Smelting and Refining Company

ASARCO

Exports From Canada

(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos:	February 1961 Tons (2,000 lbs.)	Value
Crude		
United States	5	$ 7,610
United Kingdom	..	..
South America	..	..
Central America & Mexico	..	..
European Countries	1	670
Other Countries	5	3,990
	11	$ 12,270
Milled		
United States	11,319	$2,254,745
United Kingdom	1,386	315,355
South America	1,109	276,041
Central America & Mexico	195	35,760
European Countries	3,803	589,515
Other Countries	4,172	752,519
	21,264	$4,223,935
Shorts		
United States	33,203	$1,831,849
United Kingdom	252	10,577
South America	30	1,260
Central America & Mexico	..	..
European Countries	303	20,753
Other Countries	485	41,328
	34,273	$1,905,767
Grand Total—		
Unmanufactured Asbestos:	55,548	$6,141,972
Manufactured Asbestos Goods:		
Brake Linings Facings		$ 31,376
Asbestos-Cement Building Materials		1,371
Asbestos-Cement Products, Other		3,484
		$ 36,231

Andrew J. Buford has been named Merchandising Manager for Agent Sales in KEASBEY & MATTISON COMPANY's Asbestos-Cement Pipe Sales Division at Ambler, Pennsylvania.

Mr. Buford was previously a salesman for K&M pipe in the St. Louis, Missouri, area.

Exporters of

RAW ASBESTOS

ALL GRADES—ALL TYPES

C. J. PETROW & COMPANY (PTY.) LTD.

P. O. BOX 11000

RAND CENTRAL — 165 JEPPE STREET

JOHANNESBURG - SOUTH AFRICA

OFFICES ALSO IN: TOKYO (JAPAN) AND BULAWAYO (SO. RHODESIA)

INDUSTRIAL SERVICE COMPANY

Builders of

ASBESTOS CEMENT MACHINERY

Our experienced engineers and machinists offer the industry entire machines built to deliver maximum production.

Your Inquiries Are Invited

1-51 Paterson Avenue **E. Rutherford, N. J.**

NEWS OF THE INDUSTRY

HAPPY BIRTHDAY

Richard B. Hazard, Director & Vice President—Rubber and Packing Sales, Raybestos-Manhattan, Inc., Passaic, New Jersey, August 17.

Thomas Vyvyan Baragwanath, Chairman, Cork Asbestos Mines (Pty) Limited, Pietersburg, South Africa, August 18.

R. J. Tobin, Chairman, Tilo Roofing Company, Stratford, Connecticut, August 18.

C. H. Carlough, President, Carolina Asbestos Company, Davidson, North Carolina, August 20.

Harry Coombs, Works Manager, Beldam Asbestos Company Limited, Hounslow, England, August 20.

George Robinson, Secretary, Johnson's Company, Thetford Mines, P.Q., Canada, August 30.

John P. Syme, Vice President for Executive Department, Johns-Manville Corporation, New York City, September 1.

E. W. Carey, President, Fibreboard Paper Products Corporation, San Francisco, California, September 4.

Paul D. Gauer, Vice President, Arnold Insulations, Inc., Chicago, Illinois, September 8.

Pierre E. Donellon, Vice President in Charge of Construction, Tilo Roofing Company, Stratford, Connecticut, September 9.

W. H. Hill, Member of the Board of Directors, Baldwin-Ehret-Hill, Inc., Trenton, New Jersey, September 9.

H. William Bentley, Sales Director, Australian Asbestos (Pty) Limited, Marrickville, Australia, September 10.

K. R. MacDonald, Director of Purchases, The Ruberoid Co., New York City, September 10.

Robert W. Winson, Manager, Munro Mine, Canadian Johns-Manville Company Limited, Ontario, Canada, September 13.

J. Gillmur Tyson, Jr., President, Consolidated Asbestos Corporation, Sellersville, Pennsylvania, September 14.

To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

Dr. Charles D. McCleary has been appointed Director of Research and Development for the Naugatuck Chemical Division, UNITED STATES RUBBER COMPANY.

Dr. McCleary, formerly Assistant Director, replaces **Dr. Wesley S. Coe,** who has just been elected Managing Director of Petroquimica, S.A. (PASA). PASA was recently formed by five companies, including U. S. Rubber, to build a large petrochemical complex in Argentina.

BELL ASBESTOS MINES LTD.

THETFORD MINES, QUE.

CANADA

Producers of

Raw Asbestos Crudes

& Fibres

Sales Representatives

for

Cassiar Asbestos Corporation Limited

MINERAL MARKET REPORT MMS NO. 3260

From: U. S. Bureau of Mines

World production of asbestos was 7% higher in 1960 than in 1959. Production in Canada increased 6.5% and the estimate for Russian production was increased 10%.

Production in the United States was nearly the same as in 1959, according to reports by producers to the Bureau of Mines, U. S. Department of the Interior. Domestic sources supplied 6% of the United States requirements of asbestos.

Imports of low-iron chrysotile from Southern Rhodesia declined but imports from British Columbia increased in 1960.

United States:	1959	1960
Production (sales)		
Short tons	45,459	45,223
Value (thousand dollars)	4,391	4,231
Imports for Consumption (unmanufactured)		
Short tons	713,047	669,495
Value (thousand dollars)	65,006	63,345
Exports (unmanufactured)		
Short tons	4,461	5,525
Value (thousand dollars)	793	857
Exports of Asbestos Products		
Value (thousand dollars)	12,921	13,703
Consumption, apparent		
Short tons	754,045	709,193
World:		
Production		
Short tons	2,260,000	2,420,000

Charles J. Hendrickson has been appointed Manager of National Accounts for the Insulation Division of the M. H. DETRICK COMPANY. He will be headquartered at M. H. Detrick's New York office at 50 Church Street.

POSITION AVAILABLE:

RESEARCH ENGINEER OR CHEMIST

The Quebec Asbestos Mining Association has opening for technical graduate (M.S. or Ph.D., or equivalent), age about 35, qualified to direct and carry out research program directed to develop new testing procedures for the end-use evaluation of asbestos fibres. Challenging opportunity for entry Canada's asbestos industry. All usual conditions employment satisfactory. Salary open, depending on qualifications. Contact Fred Hodgson, Flintkote Mines Limited, Thetford Mines, Quebec, Canada.

RAW ASBESTOS DISTRIBUTORS

LIMITED

FOR CANADIAN, RHODESIAN
AND SOUTH AFRICAN ASBESTOS

ASBESTOS HOUSE • 77-79 FOUNTAIN ST. • MANCHESTER 2
ENGLAND

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness.)

		July 1961		
	Par	Low	High	Last
Advocate Mines, Ltd.	1	$4.10	$4.40	$4.15
American Brake Shoe	np	45	48½	48⅜
Armstrong Cork (Com)	1	59¾	67¼	67
Armstrong Cork (Pfd)	np	81½	85½	85½
Asbestos Corporation	np	29⅞	32½	32½
Philip Carey	10	29⅝	31¼	31
Cassiar Asbestos Corp.	np	13½	14½	14
Celotex (Com)	1	26⅞	29⅜	27⅜
Celotex (Pfd)	20	18⅝	19¾	19⅜
Certain-Teed	1	45¼	55⅞	49½
Fibreboard	np	27⅞	30⅞	27⅞
Flintkote (Com)	5	27	29⅞	28⅛
Flintkote (Pfd)	np	84½	86½	84⅛
Johns-Manville	5	59¼	67⅞	64
National Gypsum (Com)	1	60¾	64⅞	62⅝
National Gypsum (Pfd)	np	94	95½	95
Porter, H. K.	100	93¾	95	95
Raybestos-Manhattan	np	68½	72	71¼
Ruberoid	1	40⅛	42¾	42
Unarco	5	7¾	8¾	7¾
United Asbestos	1	$5.45	$6.35	$6.35
U. S. Gypsum (Com)	4	95½	106	106
U. S. Gypsum (Pfd)	100	152½	155	155
U. S. Rubber (Com)	5	57¾	62⅜	62⅛
U. S. Rubber (Pfd)	100	156¾	159½	158¼

Johnson's Company Limited announced a reorganization of its Quality Control and Fibre Development Department.

MERRITT C. PHARO has been appointed to direct this Department, and ROBERT N. MOORE has been appointed Superintendent of Mills.

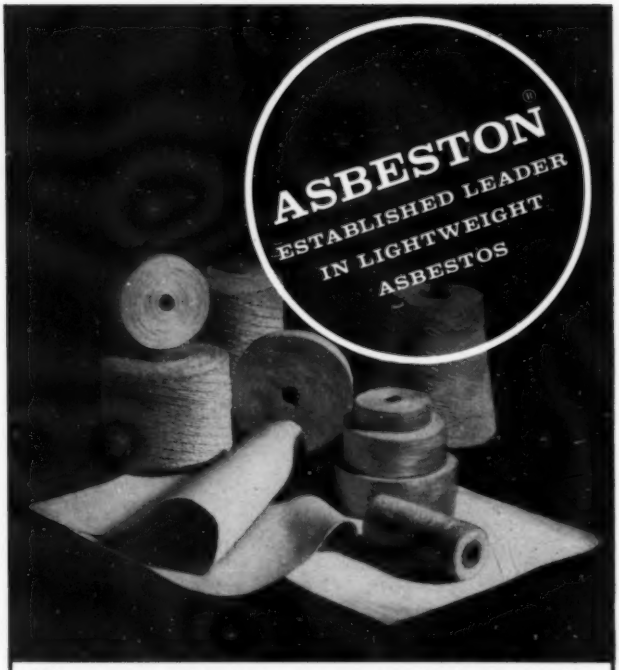
ASBESTOS FIBRES

ASBESTOS WASTE

Frank G. Ruggles Co. Inc.

26 BROADWAY

NEW YORK 4, NEW YORK



When you need asbestos in any textile form, specify ASBESTON . . . for twenty years the leader in lightweight asbestos textiles.

And when unusual or special high-temperature conditions must be met, call on our experienced technicians to adapt the unique ASBESTON spinning process to the special yarns or fabrics you need.

For detailed information on how ASBESTON yarns, fabrics or tapes can serve you best, write us today.

Textile Division

US RUBBER **United States Rubber**

Rockefeller Center, New York 20, N.Y.

CURRENT RANGE OF PRICE

As of August 10, 1961

ARIZONA—	Per Ton of 2,000 lbs., f.o.b. Globe, Arizona		
No. 1 Crude (soft)	$1,650.00	to	$1,800.00
No. 2 Crude (soft)	800.00	to	1,000.00
Group No. 3 (Filtering & Spinning)	375.00	to	450.00
Group No. 4 (Plastic & Filtering)	225.00	to	250.00
Group No. 5 (Plastic & Filtering)	190.00	to	225.00
Group No. 7 (Refuse & Shorts)	58.00	to	90.00

CANADA—	Per Ton 2,000 lbs. f.o.b. Mine Canadian Currency		
Group No. 1 (Crude No. 1)	$1,410.00	to	$1,475.00
Group No. 2 (Crude No. 2); Crude Run-of-Mine and Sundry	610.00	to	875.00
Group No. 3 (Spinning Fibre)	350.00	to	650.00
Group No. 4 (Shingle Fibre)	180.00	to	245.00
Group No. 5 (Paper)	120.00	to	150.00
Group No. 6 (Waste, Stucco or Plaster)	..		86.00
Group No. 7 (Refuse or Shorts)	40.00	to	80.00

VERMONT—Per ton of 2,000 lbs. f.o.b. Hyde Park or Morrisville, Vermont			
Group No. 3 (Spinning & Filtering)	$ 345.00	to	$ 402.00
Group No. 4 (Shingle Fibre)	181.00	to	320.00
Group No. 5 (Paper Fibre)	120.00	to	142.00
Group No. 6 (Waste, Stucco or Plaster)	..	to	86.00
Group No. 7 (Refuse or Shorts)	40.00	to	75.00

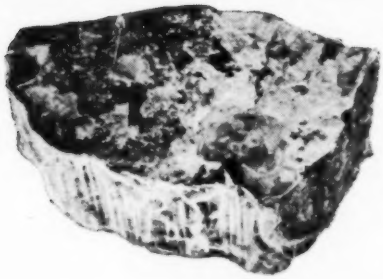
Claude H. Allard has been appointed Director of Marketing of the Naugatuck Chemical Division, UNITED STATES RUBBER COMPANY. Mr. Allard replaces **Harold M. Parseklan** who has resigned.

Joseph B. Jackson was named Field Sales Manager of the Textile Division's western district, UNITED STATES RUBBER COMPANY. His headquarters will be at 102 North Brand Boulevard, Glendale, California.

W. Lindsay Wylie will succeed Mr. Jackson as Sales Manager of tufting, chenille and floor covering yarns and will be located in the company's New York office.

NEWARK HAIR FELT COMPANY
LOW TEMPERATURE INSULATION
1000 Maple Avenue
LANSDALE, PENNA.

Built on a rock



Crude Asbestos is the rock on which B.B.A. is built. We use it to make everything for which asbestos is best, from yarns and cloths to all types of jointings and packings —and the world famous MINTEX friction materials and MINTEX Industrial Plastics.

Our factory leads in production; our Research Laboratories keep us at the head of development; Asbestos is our subject.

British Belting & Asbestos Ltd

CLECKHEATON · YORKSHIRE · ENGLAND

PATENTS

Abstracts of U. S. Patents on Asbestos and Asbestos Products by Oliver S. North.

Copies of patents can be obtained by sending 25 cents, (in coin), to The Commissioner of Patents, Washington 25, D. C., giving the patent number, date it was issued, name of patentee and name of invention.

Plastic Composition For Floor Covering and Method of Applying Same, No. 2,977,863. Granted on April 4, 1961 to J. G. Jenne. A three layer plastic floor covering assembly consists of a first layer of an acrylate polymer containing principally asbestos fibre and a pigment, a second layer of a copolymer emulsion containing silica and a pigment, and a top layer containing mainly talc and kaolin.

Apparatus For Packing Asbestos Fibers and the Like, No. 2,984,172. Granted on May 16, 1961 to J. W. Roberts, H. Daum and W. T. Donahue (assigned to Johns-Manville Corporation, New York City). Design for an automatic pressure packing system in which freshly opened loose asbestos fiber is first compressed into a relatively firm block and then transferred to a wrapper that retains the firmness of the packed fiber and can be conveniently handled.

Heat Exchanger, No. 2,986,379. Granted on May 30, 1961 to R. E. Kramig, Jr. (held by Anna Louise Kramig, Wyoming, Ohio, as executrix). In a method of fabricating core units for use in water cooling towers, commercial asbestos paper having orientated fibers is impregnated with Bakelite or other phenolic resin, heated to set the resin, and further corrugated and laminated.

Insulation For Rocket Motors, No. 2,987,880. Granted in June 13, 1961 to N. A. Kimmel (assigned to Phillips Petroleum Company, a corporation of Delaware). Use of resin-impregnated asbestos fiber as one of the materials in the production of an insulating laminate for rocket motor cases .

J. J. Attridge has been appointed Manager of Asphalt Roofing and Insulating Siding Products for the Building Products Division of the JOHNS-MANVILLE CORPORATION.

In his new post, Mr. Attridge will be responsible for market planning and merchandising of the line of J-M asphalt roofing and siding products manufactured at company plants located at: Cleveland, Ohio; Fort Worth, Texas; Manville, New Jersey, Madison, Illinois; Marrero, Louisiana, Savannah, Georgia; and, Waukegan, Illinois.

R/M INSULATING TAPES SAVE WEIGHT IN INSULATING SHIPBOARD AND PLANT PIPING

R/M Thermal Insulating Tapes, made to Military Spec. MIL-1-15349A, consist of a tubular woven asbestos sheath in A.S.T.M. Grade AA and a stuffer of fiber glass slivers. The stuffer or insulating medium provides a weight saving of 6-19% in Type I and 20-36% in Type II, compared with the same sheath containing Amosite asbestos stuffer. R/M supplies these tapes in the three sizes covered by MIL-1-15349A and in eight additional sizes. Generally specified for insulating small piping aboard ship, they are also used in industry wherever vibration or physical abuse would damage or destroy standard sectional insulating materials. Write for samples and product data.

R M

ASBESTOS TEXTILE DIVISION

RAYBESTOS-MANHATTAN, INC.

Manheim, Pa.

SPECIALISTS IN ASBESTOS, RUBBER, SINTERED METAL, ENGINEERED PLASTICS

ASBESTOS — TEXTILES

H. K. PORTER COMPANY, INC.

THERMOID DIV., CHARLOTTE WORKS

CHARLOTTE 1, N. C.